

AMENDMENTS TO THE CLAIMS

Listing of Claims:

1. (Previously presented) An authentication system comprising:
 - a plurality of receiving terminals for receiving a transaction request from a user;
 - a mobile communication network for serving a plurality of mobile communication terminals;
 - a first location memory storage device for storing location information of each of said plurality of receiving terminals;
 - a second location memory storage device for storing location information of each of said plurality of mobile communication terminals;
 - a matching device for obtaining from said first location memory storage device location information of a receiving terminal which has received a transaction request from a user, and for obtaining from said second location memory storage device location information of a mobile communication terminal of the user, and for comparing the location information of the receiving terminal and the location information of the mobile communication terminal of the user; and
 - an authentication device for determining a validity of said transaction request based upon a comparison result obtained from said matching device.
2. (Previously presented) An authentication system according to Claim 1,
 - wherein said mobile communication terminal carried by the user is identified by identification information contained in said transaction request.
3. (Previously presented) An authentication system according to Claim 1,
 - wherein said mobile communication network is a cellular network including a plurality of base stations; and
 - said second location storing device obtains location information of said mobile communication terminal by detecting a base station located near said mobile communication terminal.
4. (Previously presented) An authentication system according to Claim 1,
 - wherein said second location storing device obtains a location of said mobile communication terminal based upon radio waves transmitted from a satellite.
5. (Original) An authentication system according to Claim 3 or 4,

wherein the obtaining operation of a location of said mobile communication terminal by said second location storing device is initiated when said user operates said mobile communication terminal.

6. (Original) An authentication system according to any one of Claims 1 to 4,

wherein said receiving terminal is a communication terminal served by another communication network connected to said mobile communication network; and

wherein, while said matching device is installed in said mobile communication network, said authentication device is installed in said another communication network.

7. (Previously presented) An authentication system according to any one of Claims 1 to 4,

wherein said receiving terminal is a second mobile communication terminal served by said mobile communication network; and

wherein said first location storing device obtains location information of said receiving terminal for storage by detecting a base station located near said receiving terminal.

8. (Previously presented) An authentication system according to any one of Claims 1 to 4,

wherein said receiving terminal is a second mobile communication terminal served by said mobile communication network; and

wherein said first location storing device obtains location information of said receiving terminal for storage based upon radio waves transmitted from a satellite.

9. (Previously presented) An authentication system comprising:

a plurality of receiving terminals for receiving a transaction request by reading, from an identification card storing identification information of a user, identification information of the user;

a first location storing device for storing location information of each receiving terminal in association with identification information of said each receiving terminal;

a second location storing device for storing location information of a mobile communication terminal of each user in association with identification information of said each user;

a matching device for reading location information of a receiving terminal, which has received a transaction request from a user, from said first location storing device by using identification information of the receiving terminal as a key, for reading location information of a mobile communication terminal of the user from said second location storing device by using

identification information of the user as a key, and for comparing the location information of the receiving terminal and the location information of the mobile communication terminal of the user; and

an authentication device for determining authenticity of said user based upon a comparison result obtained from said matching device.

10. (Previously presented) An authentication system according to claim 9, it further comprising a database for retaining amount data indicating an amount available for said user in correspondence with said identification information regarding said user;

wherein while said mobile communication terminal comprises a memory for storing the identification information regarding said user and a first communication interface for performing communication with said receiving terminal, said receiving terminal comprises a second communication interface for performing radio communication with said first communication interface of said mobile communication terminal;

said mobile communication terminal transmits said identification information read out from said memory via said first communication interface;

said receiving terminal receives said identification information via said second communication interface and transmits it to said authentication device;

said authentication device determines authenticity of said user by referring to a transaction amount required for said transaction request and amount data stored in said database in correspondence with said received identification information, in addition to the comparison result obtained from said matching device.

11. (Original) An authentication system according to claim 10,

wherein said mobile communication terminal stores amount data denoting an amount available for said user and transmits it together with said identification information read out from said memory via said first communication interface; and

said receiving terminal determines authenticity of said user by referring to a transaction amount required for said transaction request and said amount data transmitted from said mobile communication terminal.

12. (Original) An authentication system according to claim 10,

wherein said first communication interface and said second communication interface perform radio communication.

13. (Original) An authentication system according to Claim 1,
wherein said mobile communication terminal is a cellular telephone.
14. (Original) An authentication system according to Claim 9,
wherein said mobile communication terminal is a cellular telephone.
15. (Previously presented) An authentication method comprising:
a step of receiving a transaction request from a user at receiving terminal;
a first location information obtaining step for obtaining location information of the
receiving terminal which has received said transaction request;
a second location information obtaining step for obtaining location information of a
mobile communication terminal of the user;
a step for comparing the location information of said receiving terminal obtained in said
first location information obtaining step with the location information of said mobile
communication terminal obtained in said second location finding step; and
a step for determining validity of the transaction request based upon the comparison
result obtained in said matching step.
16. (Previously presented) The authentication method according to Claim 15,
wherein a mobile communication terminal of the user is identified by identification
information contained in said transaction request.
17. (Previously presented) The authentication method according to claim 15,
wherein said mobile communication network is a cellular network in which a plurality of
base stations are placed; and
said second location finding step includes obtaining location information of said mobile
communication terminal by detecting a base station located near said mobile communication
terminal.
18. (Previously presented) The authentication method according to claim 17, further
comprising a step of receiving an operation to request a location detection of said mobile
communication terminal by said user at said mobile communication terminal;
wherein said step for obtaining location information of said mobile communication
terminal is initiated by reception of said operation.
19. (Previously presented) An authentication method comprising:

a step of receiving a transaction request at a receiving terminal by reading out identification information of a user from an ID card storing the identification information of the user;

a step of reading out location information of the receiving terminal by using as a key the identification information of the receiving terminal which has received said transaction request, from a first database which stores identification information of each receiving terminal in association with location information of said each receiving terminal;

a step of reading out location information of the mobile communication terminal of the user by using a key the identification information of the user, from a second database which stores identification information of each user in association with location information of said each mobile communication terminal;

a step of comparing said read location information of the receiving terminal with said read location information of the mobile communication terminal;

an authentication step of determining authenticity of said user based upon the comparison result obtained in said matching step.

20. (Previously presented) The authentication method according to claim 19, further comprising:

a step of storing amount data indicating an amount available for said user in correspondence with said identification information on said user beforehand;

a step of transmitting by said mobile communication terminal the identification information regarding said user to said receiving terminal;

a step of receiving by said receiving terminal said identification information transmitted from said mobile communication terminal; and

wherein said authentication step includes determining authenticity of said user by referring to a transaction amount required for said transaction request and said amount data which is stored in correspondence with said identification information received by said receiving terminal, in addition to said comparison result.

21. (Previously presented) An authentication program for causing a computer to execute:

a first location information obtaining process for obtaining location information of a receiving terminal which has received a transaction request from a user;

a second location information obtaining process for obtaining location information of a mobile communication terminal of the user;

a match process for comparing the location information of said receiving terminal obtained in said first location information obtaining process with the location information of said mobile communication terminal obtained in said second location information obtaining process; and

an authentication process for determining authenticity of said user based upon said comparison result obtained in the match process.

22. (Currently Amended) An authentication program for causing a computer to execute:

a process of reading out location information of a receiving terminal, which has received a transaction request from a user, by using a key identification information of the receiving terminal from a first database which stores identification information of each receiving terminal in correspondence with location information of said each receiving terminal;

a process of reading out location information of a mobile communication terminal of the user by using a key identification information of the user from a second database which stores identification information of each user in correspondence with location information of said each mobile communication terminal;

a process for comparing said read location information of the receiving terminal with said read location information of the mobile communication terminal;

[[a]] an authentication process for determining authenticity of said user based upon said comparison result obtained in the comparing process.

23. (Original) A computer-readable recording media storing the program claimed in Claim 21 or 22.